

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

December 05, 2013

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-2100522, issued to EQT PRODUCTION COMPANY, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalities being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

Chief

Operator's Well No: 607831 (FRASHURE #1)

Farm Name: JONES LAND & DEVELOPMENT

API Well Number: 47-2100522

Permit Type: Plugging
Date Issued: 12/05/2013

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

CIC	16	904
100	00	

2100522P

Date:

November 22, 2013

Operator's Well

Well No.

607831 (Frashure #1)

API Well No.:

47 021 - 00522

STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4)													
•	Well Type:	Oi	l	Gas _	X	Lie	quid In	jection			Waste Dispo	sal:	
	If Gas, Pro	ductio	n	X	Or Un	dergro	und st	orage _			Deep	Shallow	X
5)		Ele	evation:	968'	_Water	shed:	Jakes	s Run					
	Location:		Glenville	03	Count	y:		Gilmer	2	1	Quadrangle:	Gilmer 7.5'	365
	District:												
6)			EQT Produ	action Co	mpany			7) Des	ignate	ed /	Agent: Rex C	. Ray	
	Well Opera	ator	120 Profes	sional P	lace			Add	ress:		120 Professiona	Il Place	
	Address:		Bridgeport	, WV 263	330		-				Bridgeport, WV	26330	
8)								9) Plug	ging	Co	ntractor:		
	Oil & Gas I	Bryan	Harris					Nan	ne:	H	ydroCarbon Well S	Service	
	Name:	P.O. E	3ox 157	All the second			_	Add	ress:	P	O BOX 995		
	Address: \	Volga,	, WV 26238				-			Bı	uckhannon, WV 2	26201	
_							_			_			
10	\ \Made		The			,			11 *	,	u .		

) Work Order: The work order for the manner of plugging this well is as follows:

See Attachment for details and procedures.

RECEIVED
Office of Oil and Gas

DEC 05 2013

WV Department of Environmental Protection

 OFFICE USE ONLY	
trict oil and gas inspector 24 hours befo	

PLUGGING PROGNOSIS -Weston

Frasure #1 (607831)

GILMER, COUNY, WEST VIRGINIA API # 47-021-00522 Burnsville Quad

Craig Duckworth BY:

DATE: 9/12/13

CURRENT STATUS:

10" csg

@ 154'

8 1/4" csg

@ 776' 6 5/8" csg @ 1698'

@ 1856' (Packer @ 1758')

TD @ 1856'

Fresh Water @ 63'-65'

Salt Water @ None reported

ELEU: 968'

1st Salt Sand @ 1202'

Coal @ 63'-65'

Gas shows @ Slate 1812', Big Injun 1783', 3RD Salt Sand 1439', 2nd Salt Sand 1298'

Oil Shows @ none reported

Stimulation: Shot @ 1811'-1824' (60qts.)

- 1. Notify State Inspector, Bryan Harris 304-553-6087, 24 hrs. Prior to commencing operations.
- 2. Attempt to pull 3" & packer (1856'). If unable to pull 3" cut at top of packer@ 1856' and pull 3"
- 3. TIH w/ tbg @ 1856'; Set 126' C1A Cement Plug @ 1856' to 1730' (gas show@ 1812 & Big Injun @ 1783')
- 4. TOOH w/ tbg @ 1730'; gel hole @ 1730' to 1648'.
- 5. TOOH w/ tbg, Free Point 6 5/8", cut 6 5/8" @ free point, TOOH w/ 6 5/8" csg
- 6. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 6 5/8" cut. Do not omit any plugs
- 7. TIH w/ tbg @ 1648'; Set 100' C1A Cement Plug @ 1648' to 1548'(6 5/8" cag @ 1698')
- 8. TOOH w/ tbg @ 6 5/8" 1648; gel hole @ 1548' to1439'
- 9. TOOH w/ tbg @ 1439'; Set 337' C1A Cement Plug @ 1439' to 1102'(Gas Shows @3rd Salt Sand 1439' & 2nd Salt Sand 1298' 1st Salt Sand 1202)
- 10. TOOH w/ tbg @ 1102'; gel hole @ 1102' to 826'.
- 11. Free point 8 1/4" @ 776. If unable to pull. Cut at free point
- 12. TOOH w/ tbg @ 826'; Set 100' C1A Cement Plug @ 826' to 726'(8 1/4" csg @ 776')
- 13. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 8 1/4" cut. Do not omit any plugs
- 14. TIH w/ tbg @ 726' gel hole @ 726' to 200'.
- 15. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200' to Surface

16. Top off as needed

- 17. Set Monument to WV-DEP Specifications
- 18. Reclaim Location & Road to WV-DEP Specifications

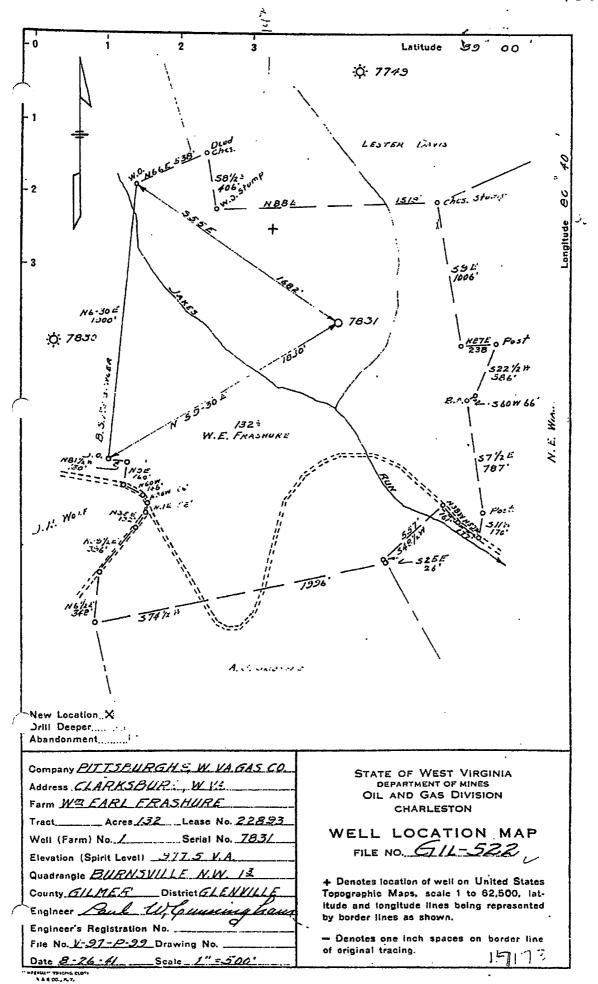
NOV 252013

Environmental Protection

GEL IS FRESH WATER WITH 10 % BEMONITE.

WEST VIRGINIA DEPARTMENT OF MINES OIL & GAS DIVISION WELLRECORD

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Permit No. Gil-522
                                                        Gas Well
Burnsville Quad.
Company
                      Pittsburgh & W. Va. Gas Co., .
                                                        Casing & Tubing
Address
                      Clarksburg, West Virginia
                                                        10
Farm
                      Wm. Earl Frasure et ux Acres 132
                                                        £3
                                                                    776 776
Location
                      Burns. N/W. 1-3
                                                        6-5/8
                                                                    1698 1.698
                                       Elev. 977.5 VA
Well No.
                      7831
                                                                    1856 1856
                      Glenville Gilmer County
District
                                                       Packer - Hook
Surface
                      Wm. Earl Frashure et ux, Linn, W. Va. Size
                                                                    6-5/2"X3"
                      Oct. 15, 1941
                                                        Depth set
                                                                    1758
Commenced
                      Nov. 13, 1941
Commleted
                                                       Perf.top
                                                                    1816
                      11-17-41 Depth 1811-1824 (60 qts)Perf.bot.
Shot
                                                                    1836
                                                                    531
Flow
                      44/10ths Merc. in 12"
                                                       Coal
Volume
                      500,000 Cu. Ft.
                      615 lbs. 24 hrs.
Rock Pressure
Clay
            rd s
                       0
                              10
                                        Blue Monday wh h
                                                            1645 1653
                               25
                        10
Gravel
            gy s
                                        Slate
                                                    wh s
                                                            1653
                                                                 1669
Mud
            bl s
                        25
                               60
                                        Big Lime
                                                            1569
                                                                   1743
                                                    wh h
                        60
                               63
Slate
            bk s
                                        Big Injun
                                                            1743
                                                                 1845
                                                    wh h
                              65W.HF 63'Gas
                        6.3
Coal
            bk s
                                                            1783 - 86 19/10W.L"
            wh s
Slate
                        65
                              112
                                                    dk s
                                        Slate
                                                            1845 1855
                      112
                              144
                                                            1812-22 20/104.11"0.
Sand
            wh h
                                        Gas
Slate
            wh s
                       144
                              169
                                       Total Depth
                                                                   1.356
                              268
            rd s
                       169
Red Rook
                                        S. L.
                                                                   1856
Slate
            bk s
                       268
                              278
            rd s
                     278
                              319
Red Rock
                       379
                              348
Slate
            bk s
Red Rock
                       348
                              354
            rd s
                       354
                              374
Slate
            wh s
                              41.0
Little Dunkard" h
                       374
                       410
                              536
Slate
            wh s
                              572
                       536
Slate
            bk
                S
                       572
                              589
Big Dunkard wh 1
                       589
                              630
Slate
            wh s
            wh brk.
                       630
                              688
Lime
                       588
                              711
Slate
            wh s
            wh h
                       717.
                              7 1
Gas Sand
                       771
                              800
Slate
            wh s
                       800
                              831S.L.820'
Sand
            wh h
                       831
                              849
Slate
            wh s
                       849
                              920
Hm. Sand
            wh l
            bk s
wh 1
                       920
                              930
Slate
                              970
                      930
Hm. Sand
Slate
            bk s
                      970
                             1045
                      1045
                             1062
            wh h
Lime
                             1202
                      1062
Slate
            bk s
1st.SaltSand wh 1
                      1202
                             1.227
                      1227
                             1251
            bk s
Slate
Lime
            wh h
                      1251
                             1264
                      1254
                             1321G.1298 S.L.1299 C. 10/10 W.1"Oppg.
2nd.Salt Sandwh h
                      1327
                             1324
Slate
            bk s
            dk h
                      1324
                             1342
Lime
Slate
            bk s
                      1342
                             1359
                             1402
                      1353
Lime
            dk h
                      1402
                                       S.L.1445
Slate
            bk s
                             1419
                      1419
                             1450G.1439-1441 10/10 W 1"
3rd.Salt Sandwh h
                      1450
                             1456
Slate
            dk s
                       1456
                             1514
Sand
            wh h
                             1520
                      1514
Slate
            dk s
                      1520
                             1555
Sand
            wh h
Slate&Shells wh s
                      1555
                             1.570
            rd s
Red Rock
                       1570
                             1594
                             1604
Maxon Sand
            wh h
                      1594
                       1604
                             1609
Red Rock
            rd s
            wh s
wh h
                       1609
                             1621
Slate
                       1621
                             1637
Lime
Lime
            wh brk.
                      1637
                             1645
```



WW-4-A	١
Revised	6/07

1) Date: November 22, 2013
2) Operator's Well Number 607831 (Frashure #1)

3) API Well No.:

47 021 State County 00522 Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS NOTICE AND APPLICATION TO PLUG AND ABANDON WELL

۸\ ۵	Surface Owner/e	to be consider	The confidence of the property of the contract	
	Surface Owner(s a) Name	Jones Land and Development LLC 🔾	5) (a) Coal (Name	None
(resident to the second		9950-505KGV LSS SMSK	None
	Address	P.O. Box 1	Address	
		Sand Fork, WV 26430		
,	la) Nama			and with Deplementing
(b) Name			ner(s) with Declaration
	Address		Name	Jones Land and Development LLC
				P.O. Box 1
			Address	Sand Fork, WV 26430
(c) Name		Name	
,	Address		Address	
			_	
6) I	nspector	Bryan Harris	(c) Coal Less	see with Declaration
,	Address	P.O. Box 157	- Name	None
		Volga, WV 26238	Address	
	Telephone	304-553-6087	Victor (1994-1997) 1994 (1994)	
	N.			
	work and de (2) The plat (sur The reason you instructions on Take notice that this Notice and Office of Oil and on the attached have been mail	escribes the well its and the plugging work of arveyor's map) showing the well location on a received these documents is that you have the reverses side. However, you are not rest under Chapter 22-6 of the West Virginia Collapplication and accompanying documents and Gas, West Virginia Division of Environmental Application and depicted on the attached Follow pregistered or certified mail or deliverest stances) on or before the day of mailing or described the stances.	order; and Form WW-6. The rights regarding the application of the application of the second of the s	plication which are summarized in the at all. ell operator proposes to file or has filed abandon a well with the Chief of the ect to the well at the location described this Notice, the Application, and the plat
_		Well Operator:	EQT Production Con	npany France Patection
		By:	Victoria J.Roark	Mer of
		Its:	Permitting Supervise	or //
		Address:	PO Box 280	
		Telephone:	Bridgeport, WV 2633 (304) 848-0076	30
Sub	scribed and swo	orn before me this	. /	ber, 2013
N 4	nathy	M. PLUJOX	000	Notary Public
viy C	Commission Expire	95: 8-24-21	dd	

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information of the process and phone number, as part of our regulatory duties. Your personal information Act requests. Our office will appropriately secure your personal information of the process and phone number, as part of our regulatory duties. Your personal information, please contact DEP's Chief Privacy Officer at depprivation of the privacy of th

MOTARY PUBLIC
Kathy M Kugel
PO Box 109
Davis, WV 26260
My Commission Expires August 24, 2022

WW-9 Revised 2/03

Page	of				
2) Opera	or's We	ll Nu	mber		
607831 (Frashur	e #1)		
3) API W	ell No :	47	021 -	00522	

My Commission Expires August 24, 2022

STATE OF WEST VIRGINIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name:	EQT PRODUC	TION COMPANY		OP ID:	
Watershed:		Jakes Run		Quadrangle:	Gilmer 7.5'
Elevation:	968'	County:	Gilmer	District:	Glenville
Description of antic	ipated Pit Waste:	-		Formation Fluids	16)
Do you anticipate u Will synthetic liner		000 bbls of water Yes	to complete th	e proposed well work? nat ml.?	Yes No_X_ 30 ml
Proposed Disposal X	Land Applica Underground Reuse (at Al	ation d Injection - UIC P PI Number) osal Permit #.	Permit Numbe		
Drilling medium an If oil bas Additives to be use	ticipated for this we sed, what type? S	ell? Air, freshwate		etc	
	oit and plan to solidif or offsite name/perm	y what medium will			
issued on August 1 understand that the permit and/or other I certify under pena application form an for obtaining the inf	, 2005, by the Office provisions of the applicable law or alty of law that I had all attachments formation, I believe	ce of Oil and Gas permit are enforce regulation can lea ve personally exa hereto and that, be that the informat	of the West Veable by law. Indicate to enforce of the mined and amples as the mined and in	ent action. familiar with the informa	nmental Protection. I or condition of the general ation submitted on this immediately responsible m aware that there are
Company Offi	cial Signature	/	7/1	the N	·
Company Offi	cial (Typed or Pr	inted) <u>Victor</u>	ia Roark		
Company Offi	cial Title	Permittin	g Superviso	-WV	
Subscribed and	sworn before me	this 22	day of _	November	, 2013
My Commission	y M. Tou	gel 18-24-2	022	Notanyoffeibil	OFFICIAL SEAL STATE OF WEST VIRGIMIA

RECEIVED
Office of Oil and Gas

OPERATOR'S WELL NO.: 607831 (Frashure #1)

LEGEND

Property Boundary		Diversion	//////////
WV Department	al Protection	Spring	Wet Spot
=========		O	-8-
Planned Fence	Drain Pipe	e with size in inches	Water Way
//_/		— 1 2 →	← → (→
Existing Fence	Stre	eam =	Cross Drain
Open Ditch		al Filter Strip	Rock
North	Building	Water well	Drill site
N		W	\oplus
Pit with Cut Walls	Pit with Cor	mpacted Walls Area	of Land Application of Pit Waste
roposed Revegetation Treatme	ent: Acres Disturbed:	1± Prevegeta	tion pH5.8
Lime 3 Ton	s/acre or to correct t	to pH6.5	
Fertilizer (10-20-20) or equ	uivalent	1/3 ton	lbs/acre (500 lbs minimum)
Mulch 2 Ton	s/acre or hydroseed		
1	SEED MIXT	URES	
Area I			Area II
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		
		-	
ATTACH:			
ATTACH: Drawing(s) of road, location, photocopies section of involvent			
Drawing(s) of road, location,			
Drawing(s) of road, location, photocopies section of involv			

Topo Quad:_	Gilmer 7.5'	Scale:	1 "= 2000'	
County:	Gilmer	Date:	October 17	⁷ , 2013
District:	Glenville	Project i	No: 25-19-00-0)7
	47-021-00522	WV 607831	(Frashure #1)	Торо
as for the second secon	Gas Well Res Well Well Well Well Mine Bas Well Mine	old Mell 878	Creat New York	Oil Well
Barnett For	Messenger Sem	Strip Mine win 247-024-005	The state of the s	Cine Well Well
Ste	wart Cas Well	Strip Mine	Strip Mine Run	Gest 1
Strip	Strip Mines	66 S M & D		CIII.
	Strip Mine Mines	Gasa Wette amount of a second	N E W L L L E	IAD 27, South Zone I: 714,267,78 I: 2,073,245.44 VGS 840 II and Gas AT: 38.961306 ONGV -80.742255 ELEV: 968.41
LEGHEN AND OUT OF THE PROPERTY	SURVEYING AND MAPPING SERVICE ALLEGHENY SUF 1-800-482-860 P.O. BOX 438 BIRCH RIVER, WV 12 PH: (304) 649-86 FAX: (304) 649-86	RVEYS, INC	EQT Produc	ction Company Box 280 ort, WV 26330



West Virginia Department of Environmental Protection Office of Oil and Gas WELL LOCATION FORM: GPS

API: 47-021-00522 . WELL NO.: WV 607831 (Frashure #1) .
FARM NAME: Frashure .
RESPONSIBLE PARTY NAME: EQT Production Company .
COUNTY: Gilmer DISTRICT: Glenville
QUADRANGLE: Gilmer 7.5'
SURFACE OWNER:Jones Land & Development, LLC
ROYALTY OWNER: EQT Production Company, et al.
UTM GPS NORTHING: 4312514
UTM GPS EASTING:522331 GPS ELEVATION:295 m (968 ft)
The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters. 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed Differential Real-Time Differential Mapping Grade GPS _X_: Post Processed Differential Real-Time Differential 4. Letter size copy of the topography map showing the well location. I the undersigned, hereby certify this data is correct to the best of my knowledge and
belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.
Signature



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. Frashure #1 WV 607831 (47-021-00522)

POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 607831.

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Office of Oil and Gas

NOV 252013

BIRCH RIVER OFFICE P.O. Box 438 * 237 Birch River Road Birch River, WV 26610 phone: 304-649-8606 fax: 304-649-8608 BRIDGEPORT OFFICE 172 Thompson Drive Bridgeport, WV 26330 phone: 304-848-5035 fax: 304-848-5037 CALDWELL OFFICE 212 Cumberland Street Caldwell, OH 43724 phone: 740-305-5007 fax: 740-305-5126 ALUM CREEK OFFICE
P.O. Box 108 A 1413 Childress Road
Alum Creek, WV 25003
P.V. Cobone: 304-756-2949 Collogram: 304-756-2948

Topo Quad:_	Gilmer 7.5'	Scale:	1 "= 2000'	
County:	Gilmer	Date:	October 17, 2013	
District:	Glenville	Project No:	25-19-00-07	
Water	47-021-00522 W	V 607831 (Fra	shure #1)	
Barnett Fan	Well Strip Mine	and the state of t	NAD 27, South Zo N: 714,267.78 E: 2,073,245.44 WGS 84 LAT: 38.961306 LONG: -80.742255 CELEV 1968.41 Gas	nne
EGH ON VEYS	SURVEYING AND MAPPING SERVICES PE ALLEGHENY SURV 1-800-482-8606 P.O. BOX 438 BIRCH RIVER, WV 2661 PH: (304) 649-8606 FAX: (304) 649-8608	EYS, INC.	EQT Production Company P.O. Box 280 Bridgeport, WV 26330	